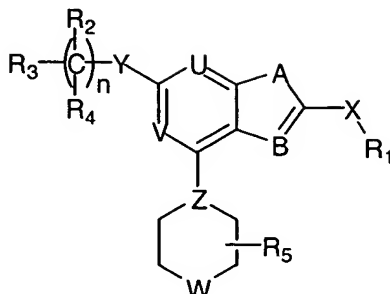


**WHAT IS CLAIMED IS:**

1. A compound of formula (I):



5 wherein

$R_1$  is aryl or heteroaryl;

each of  $R_2$  and  $R_4$ , independently, is H, halogen, CN, alkyl,  $OR^a$ , or  $NR^aR^b$ ;

$R_3$  is H, halogen, CN, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cyclyl, heterocyclyl,  $OR^a$ ,  $OC(O)R^a$ ,  $OC(O)NR^aR^b$ ,  $NR^aR^b$ ,  $NR^aC(O)R^b$ ,  $NR^aS(O)R^b$ ,  $NR^aS(O)_2R^b$ ,  $NR^aC(O)NR^bR^c$ ,  $NR^aC(S)NR^bR^c$ ,  $NR^aC(NR^b)NR^cR^d$ ,  $NR^aC(O)OR^b$ ,  $S(O)NR^aR^b$ ,  $S(O)_2NR^aR^b$ ,  $S(O)R^a$ ,  $S(O)_2R^a$ ,  $C(O)R^a$ ,  $C(O)OR^a$ , or  $C(O)NR^aR^b$ ;

$R_5$  is H or alkyl;

$n$  is 0, 1, 2, 3, 4, 5, or 6;

$A$  is O, S,  $S(O)$ ,  $S(O)_2$ , or  $NR^e$ ;

15  $B$  is N or  $CR^f$ ;

$X$  is O, S,  $S(O)$ ,  $S(O)_2$ ,  $NR^e$ , or  $C(O)$ ;

$Y$  is a covalent bond,  $C(O)$ ,  $C=NR^a$ , O, S,  $S(O)$ ,  $S(O)_2$ , or  $NR^e$ ;

$Z$  is N or CH;

each of  $U$  and  $V$ , independently, is N or CR; and

20  $W$  is O, S, or  $NR^e$ ;

in which each of  $R^a$ ,  $R^b$ ,  $R^c$ , and  $R^d$ , independently, is H, alkyl, aryl, heteroaryl, cyclyl, or heterocyclyl;  $R^e$  is H, alkyl, aryl, acyl, or sulfonyl; and  $R^f$  is H, alkyl, aryl, acyl, sulfonyl, alkoxyl, amino, ester, amide, CN, or halogen; and

provided that if each of  $U$  and  $V$  is N,  $Y$  is a covalent bond,  $n$  is 0, then  $R_3$  is H, CN, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cyclyl,  $OR^a$ ,  $OC(O)R^a$ ,  $OC(O)NR^aR^b$ ,  $NR^aR^b$ ,  $NR^aC(O)R^b$ ,  $NR^aS(O)R^b$ ,  $NR^aS(O)_2R^b$ ,  $NR^aC(O)NR^bR^c$ ,  $NR^aC(S)NR^bR^c$ ,  $NR^aC(NR^b)NR^cR^d$ ,

$\text{NR}^a\text{C}(\text{O})\text{OR}^b$ ,  $\text{S}(\text{O})\text{NR}^a\text{R}^b$ ,  $\text{S}(\text{O})_2\text{NR}^a\text{R}^b$ ,  $\text{S}(\text{O})\text{R}^a$ ,  $\text{S}(\text{O})_2\text{R}^a$ ,  $\text{C}(\text{O})\text{R}^a$ ,  $\text{C}(\text{O})\text{OR}^a$ , or  $\text{C}(\text{O})\text{NR}^a\text{R}^b$ .

2. The compound of claim 1, wherein A is  $\text{NR}^e$ , and B is N.

3. The compound of claim 1, wherein Z is N.

4. The compound of claim 3, wherein W is O.

5. The compound of claim 1, wherein X is  $\text{NR}^e$ .

6. The compound of claim 1, wherein each of U and V is N.

7. The compound of claim 6, wherein A is  $\text{NR}^e$  and B is N.

8. The compound of claim 6, wherein Z is N.

9. The compound of claim 8, wherein W is O.

10. The compound of claim 6, wherein X is  $\text{NR}^e$ .

11. The compound of claim 10, wherein A is  $\text{NR}^e$  and B is N.

12. The compound of claim 11, wherein Z is N.

13. The compound of claim 12, wherein W is O.

14. The compound of claim 12, wherein  $\text{R}_3$  is halogen, CN, alkyl, aryl, heteroaryl,  $\text{OR}^a$ ,  $\text{OC}(\text{O})\text{R}^a$ ,  $\text{NR}^a\text{NR}^b$ ,  $\text{NR}^a\text{C}(\text{O})\text{R}^b$ ,  $\text{C}(\text{O})\text{OR}^a$ , or  $\text{C}(\text{O})\text{NR}^a\text{R}^b$ .

15. The compound of claim 14, wherein  $R_3$  is aryl, heteroaryl, aryloxy, or heteroaryloxy.

16. The compound of claim 15, wherein  $R_3$  is heteroaryl.

17. The compound of claim 15, wherein  $R_3$  is pyridinyl, triazolyl, tetrazolyl, pyrimidinyl, thiazolyl, indolyl, or indolizinyl.

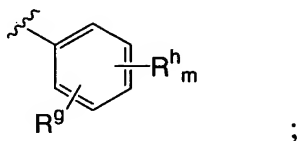
18. The compound of claim 15, wherein the compound is a *N*-oxide.

19. The compound of claim 13, wherein  $R_1$  is aryl.

20. The compound of claim 19, wherein  $Y$  is  $NR^e$ .

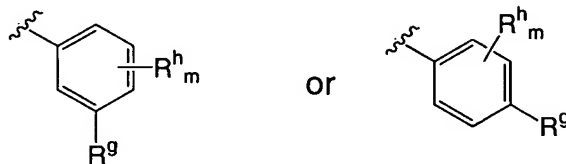
21. The compound of claim 19, wherein  $Y$  is O.

22. The compound of claim 19, wherein  $R_1$  is



in which  $R^g$  is H, halogen, CN, alkyl, or alkoxy;  $R^h$  is halogen, CN, hydroxyl, amino, alkyl, aryl, heteroaryl, alkoxy, aryloxy, heteroaryloxy, acyl, alkoxycarbonyl, alkylcarbonoxyl, mono- and dialkylaminocarbonyl, amidinyl, ureayl, guanadinyl, sulfonyl, or sulfonamidyl; and  $m$  is 0, 1, 2, 3, or 4.

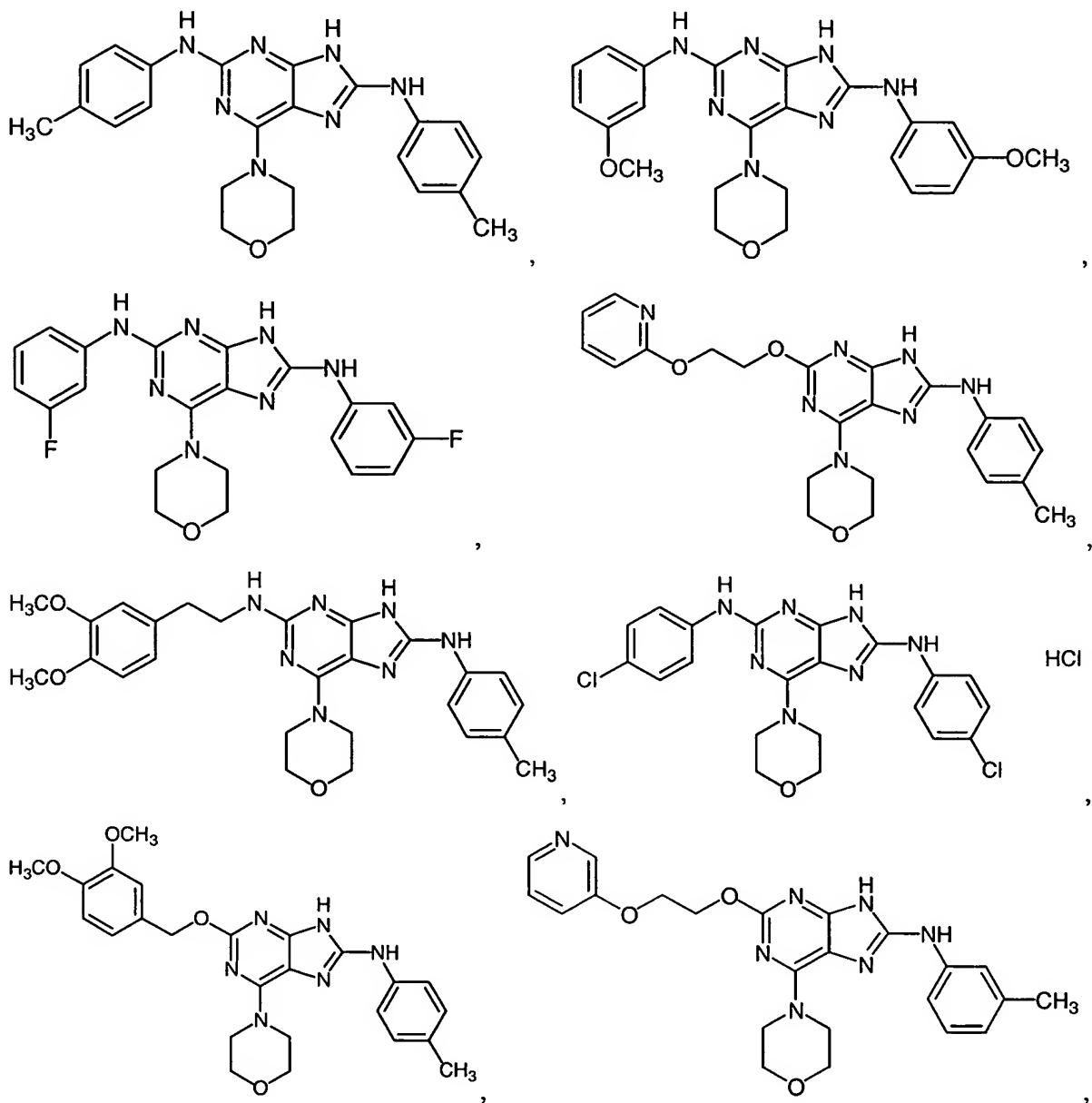
23. The compound of claim 22, wherein  $R_1$  is

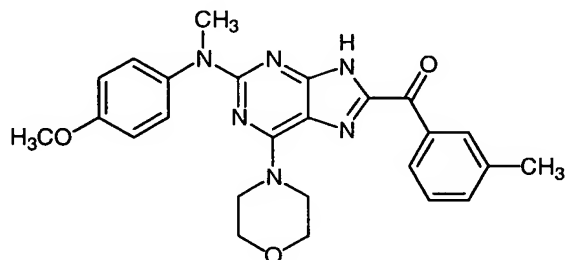
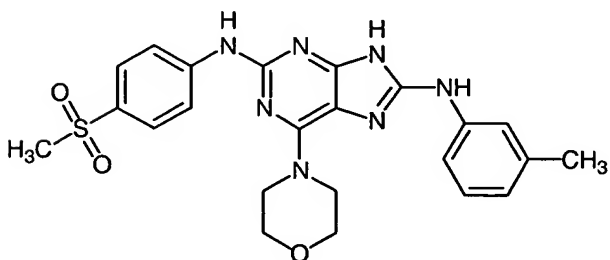
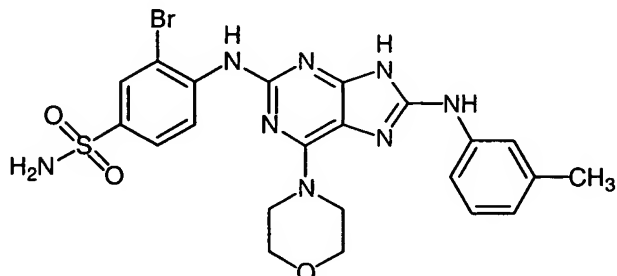
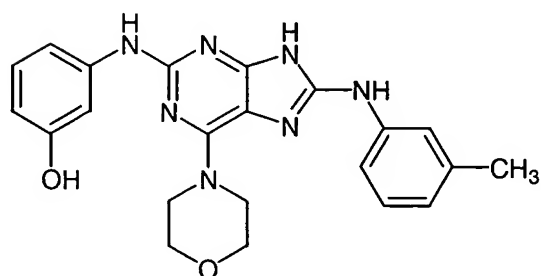
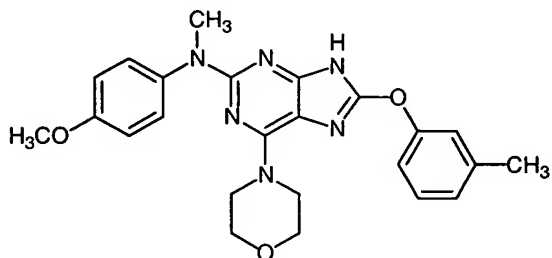
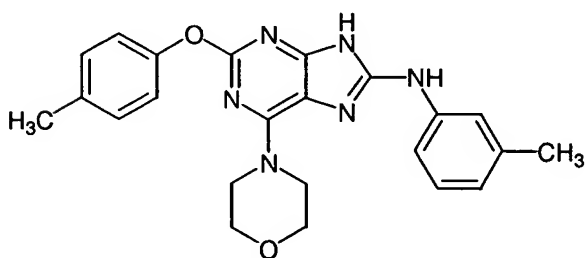
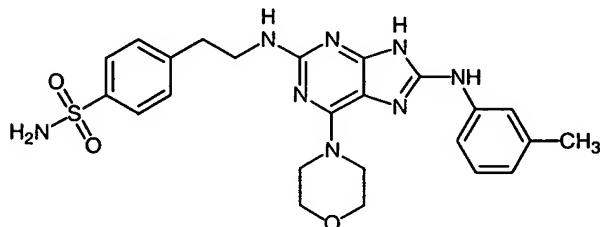
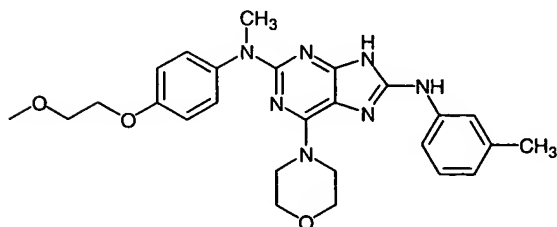
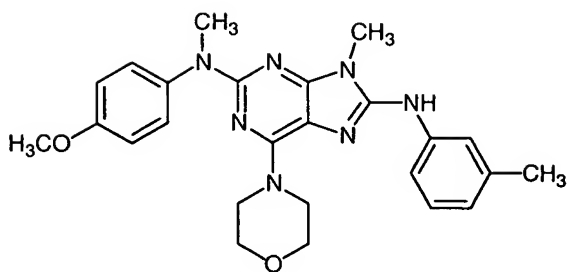
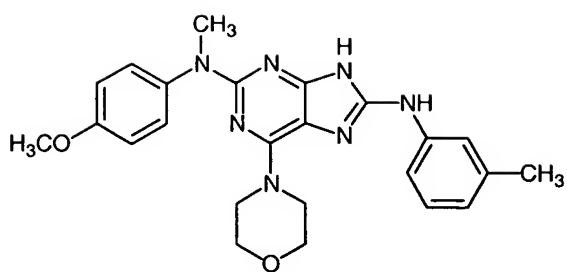


24. The compound of claim 22, wherein  $R^g$  is H, F, Cl, Br, I, CN, Me, Et, Pr, *i*-Pr, OMe, or OEt.

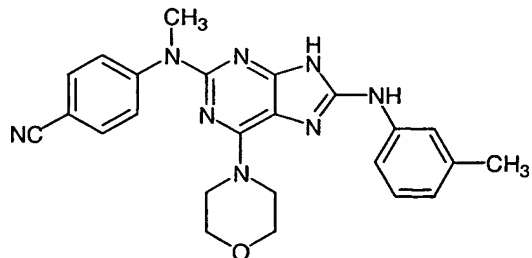
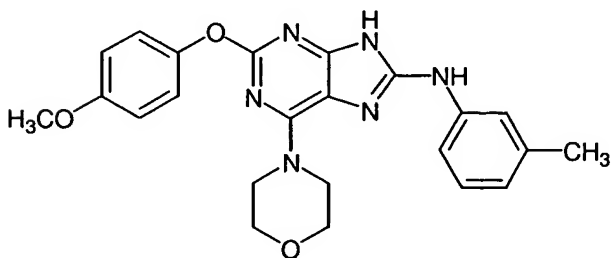
25. The compound of claim 1, wherein the compound is

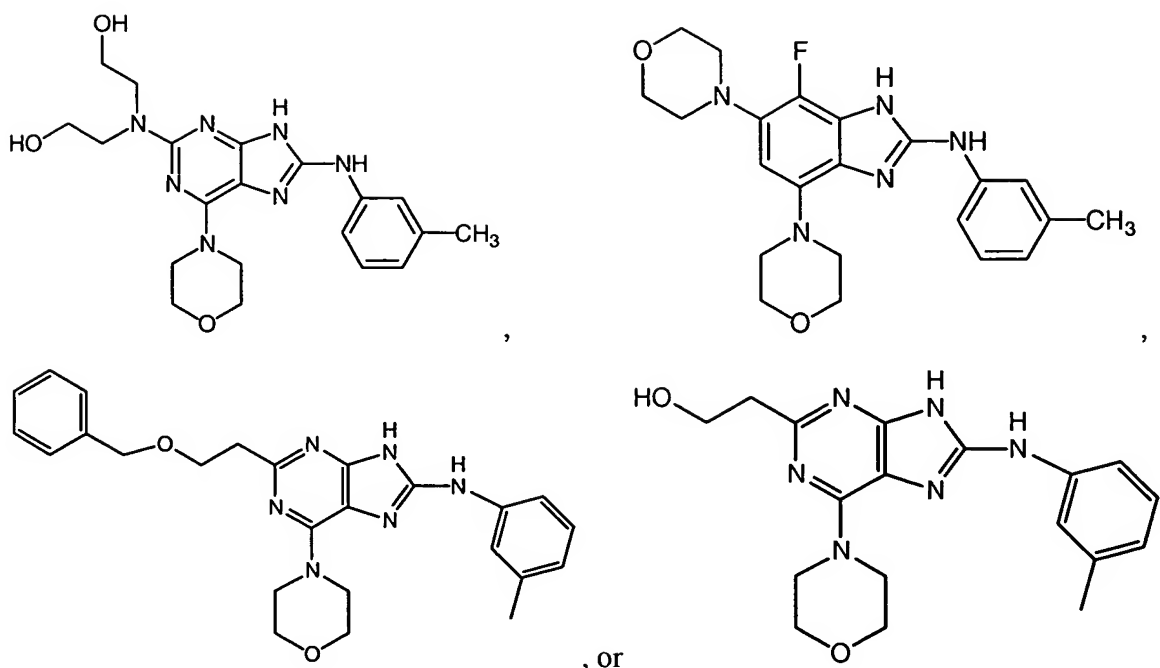
5



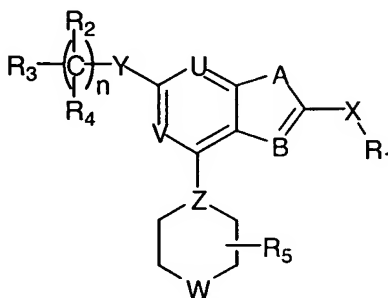


5





26. A method for treating an interleukin-12 overproduction-related disorder,  
 5 comprising administering to a subject in need thereof an effective amount of the compound  
 of formula (I):



wherein

$R_1$  is aryl or heteroaryl;

each of  $R_2$  and  $R_4$ , independently, is H, halogen, CN, alkyl,  $OR^a$ , or  $NR^aR^b$ ;

$R_3$  is H, halogen, CN, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cyclyl, heterocyclyl,  
 $OR^a$ ,  $OC(O)R^a$ ,  $OC(O)NR^aR^b$ ,  $NR^aR^b$ ,  $NR^aC(O)R^b$ ,  $NR^aS(O)R^b$ ,  $NR^aS(O)_2R^b$ ,  
 $NR^aC(O)NR^bR^c$ ,  $NR^aC(S)NR^bR^c$ ,  $NR^aC(NR^b)NR^cR^d$ ,  $NR^aC(O)OR^b$ ,  $S(O)NR^aR^b$ ,  
 $S(O)_2NR^aR^b$ ,  $S(O)R^a$ ,  $S(O)_2R^a$ ,  $C(O)R^a$ ,  $C(O)OR^a$ , or  $C(O)NR^aR^b$ ;

$R_5$  is H or alkyl;

$n$  is 0, 1, 2, 3, 4, 5, or 6;

A is O, S, S(O), S(O)<sub>2</sub>, or NR<sup>e</sup>;

B is N or CR<sup>f</sup>;

X is O, S, S(O), S(O)<sub>2</sub>, NR<sup>e</sup>, or C(O);

Y is a covalent bond, C(O), C=NR<sup>a</sup>, O, S, S(O), S(O)<sub>2</sub>, or NR<sup>e</sup>;

5 Z is N or CH;

each of U and V, independently, is N or CR; and

W is O, S, or NR<sup>e</sup>;

in which each of R<sup>a</sup>, R<sup>b</sup>, R<sup>c</sup>, and R<sup>d</sup>, independently, is H, alkyl, aryl, heteroaryl, cyclyl, or heterocyclyl; R<sup>e</sup> is H, alkyl, aryl, acyl, or sulfonyl; and R<sup>f</sup> is H, alkyl, aryl, acyl, sulfonyl, alkoxyl, amino, ester, amide, CN, or halogen.

10

27. The method of claim 26, wherein A is NR<sup>e</sup>, and B is N.

28. The method of claim 26, wherein Z is N.

15

29. The method of claim 28, wherein W is O.

30. The method of claim 26, wherein X is NR<sup>e</sup>.

20

31. The method of claim 26, wherein each of U and V is N.

32. The method of claim 26, wherein the disorder is rheumatoid arthritis, sepsis, Crohn's disease, multiple sclerosis, psoriasis, or insulin-dependent diabetes mellitus.

25

33. The method of claim 32, wherein A is NR<sup>e</sup>, and B is N.

34. The method of claim 32, wherein Z is N.

35. The method of claim 34, wherein W is O.

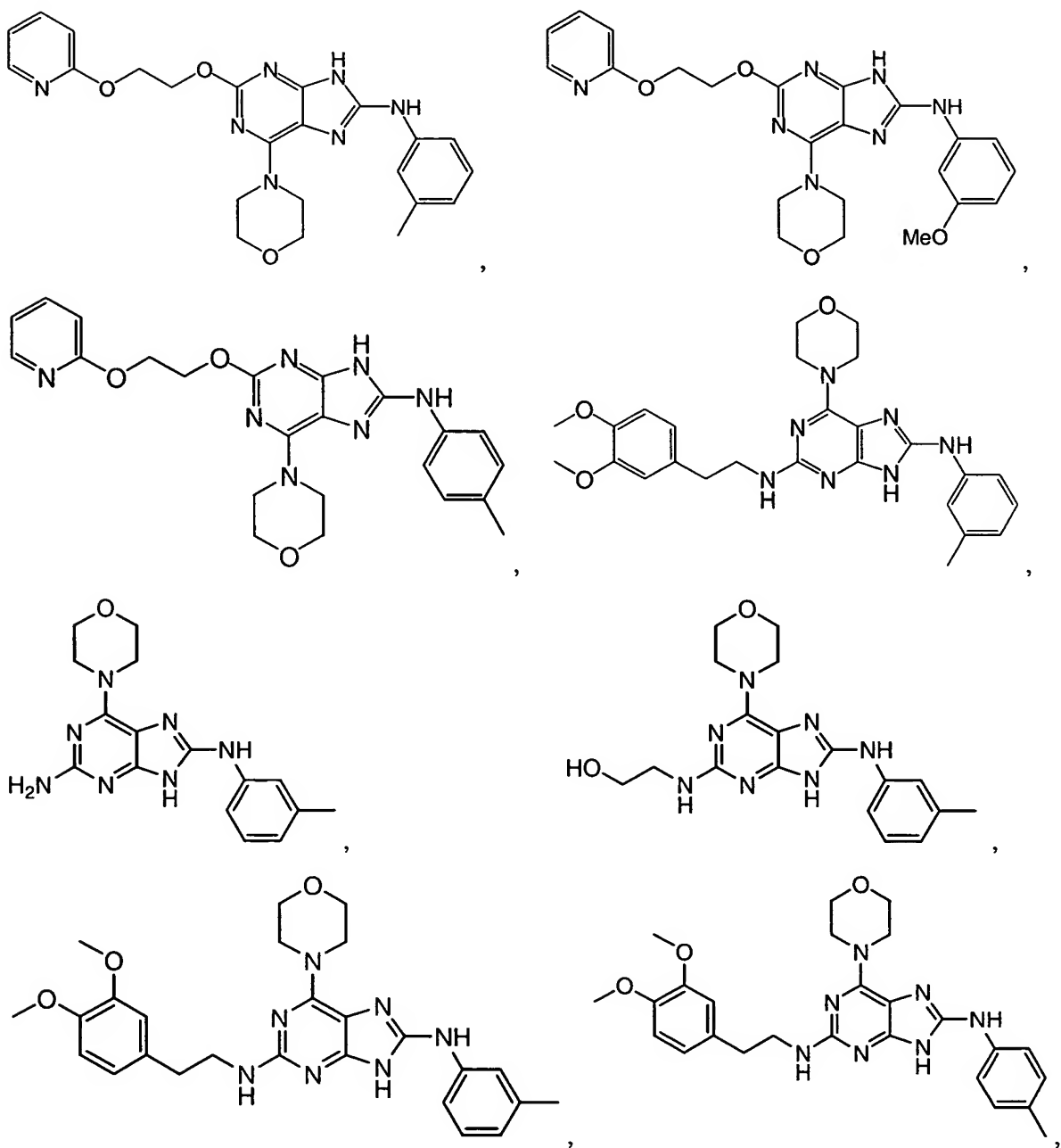
30

36. The method of claim 32, wherein X is NR<sup>e</sup>.

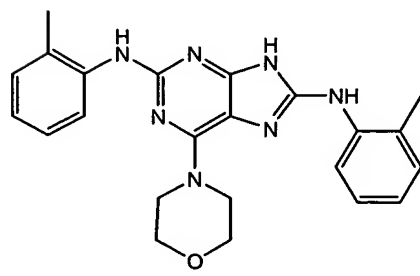
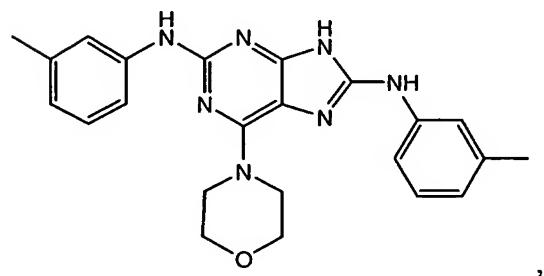
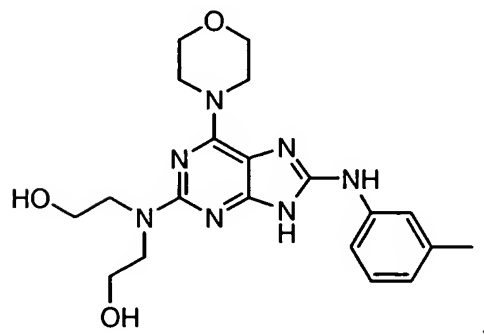
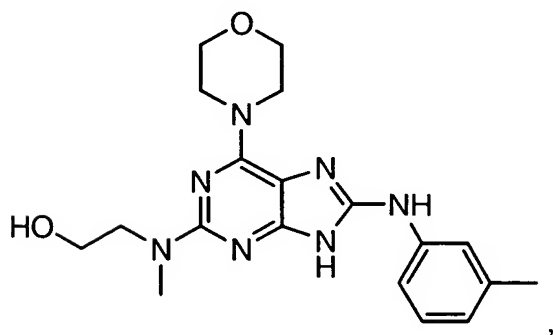
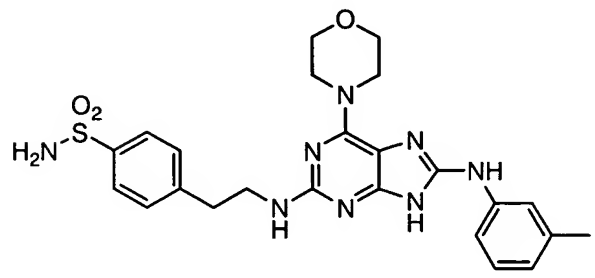
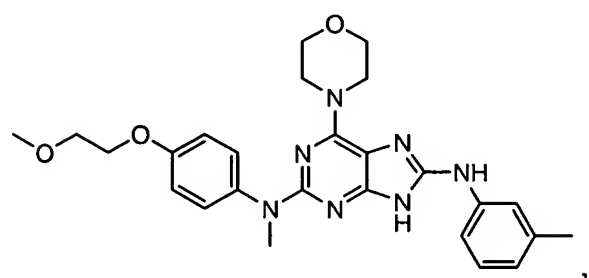
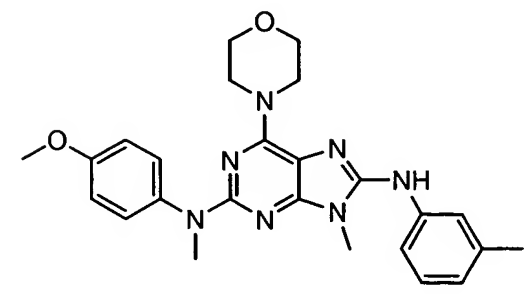
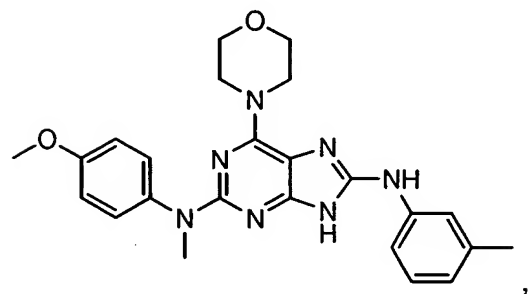
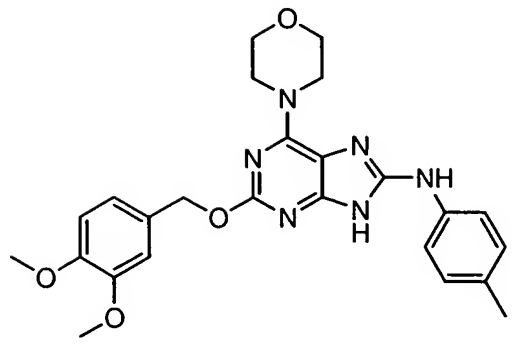
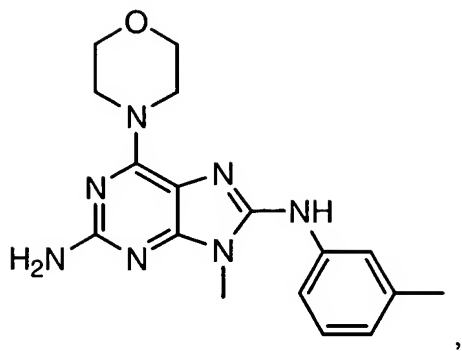
37. The method of claim 32, wherein each of U and V is N.

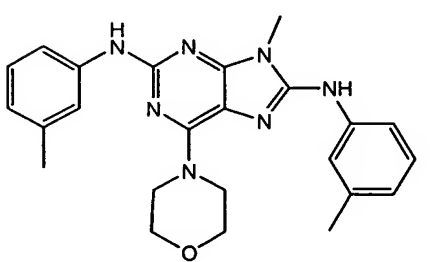
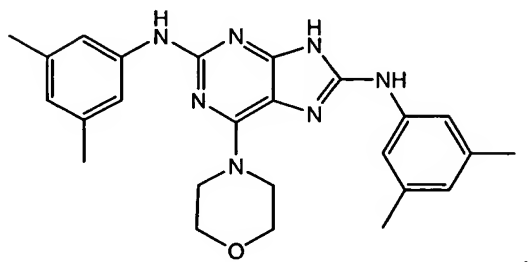
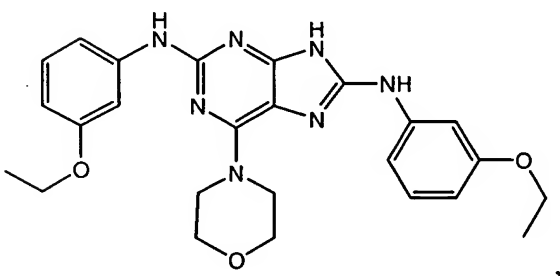
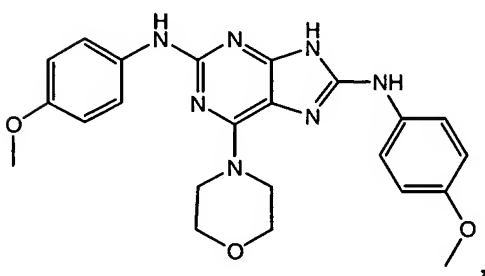
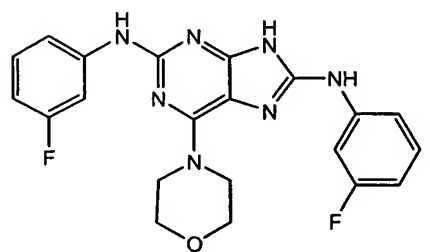
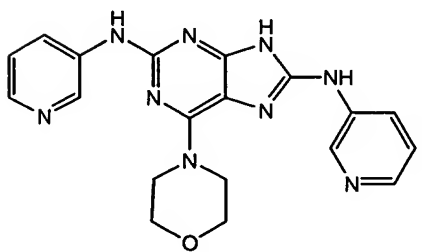
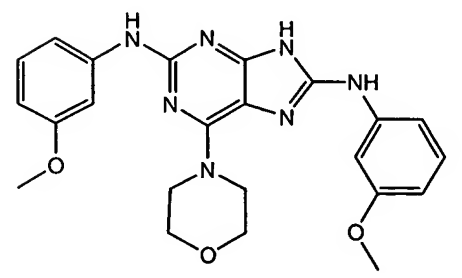
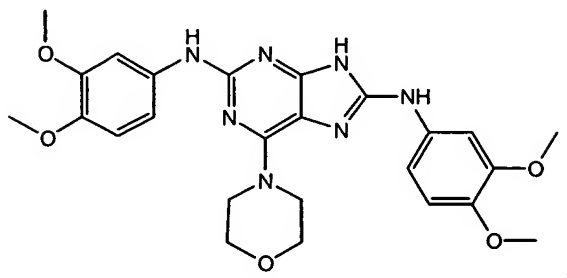
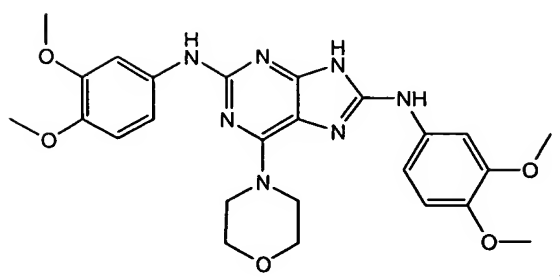
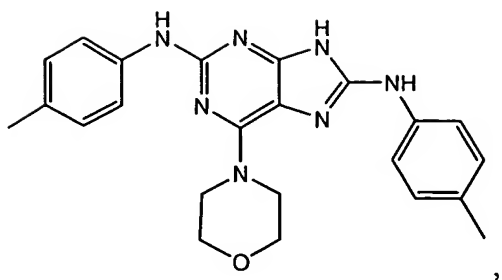
38. The method of claim 26, wherein the compound is

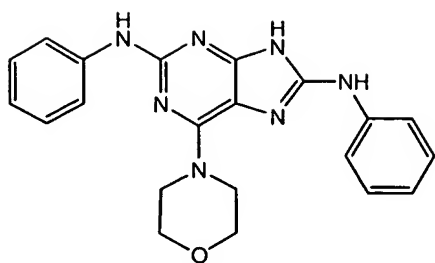
5



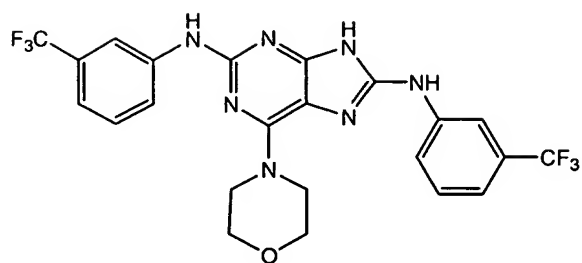




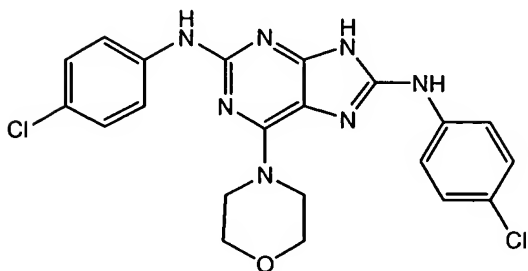




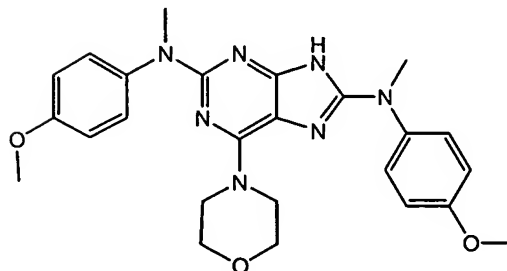
,



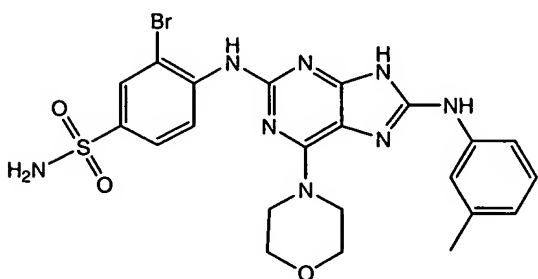
,



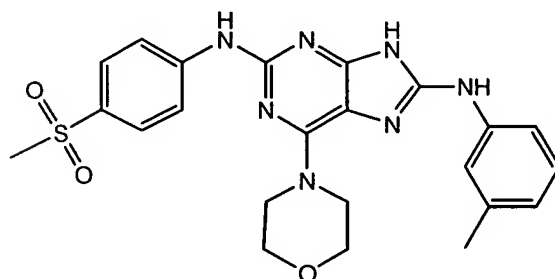
,



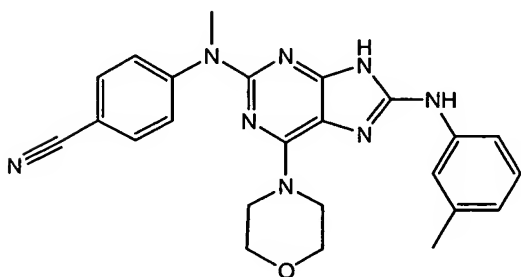
,



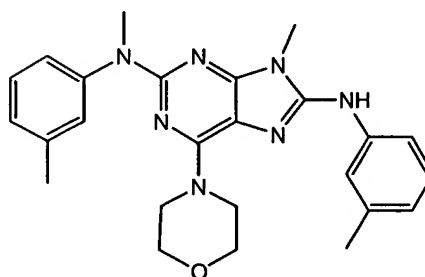
,



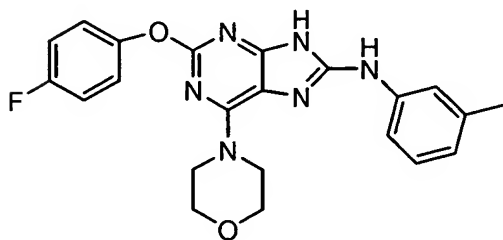
,



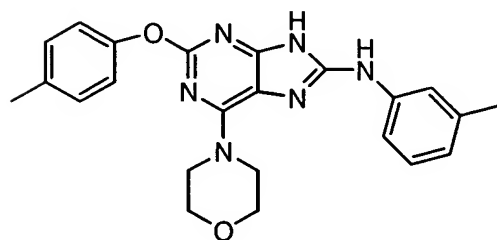
,



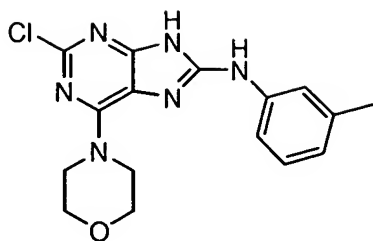
,



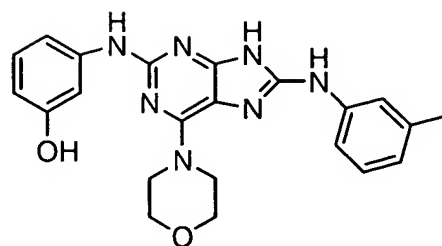
,



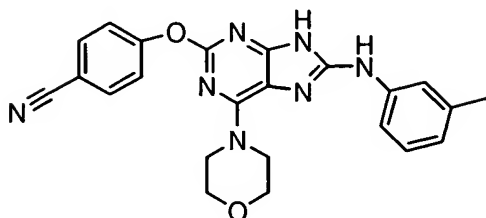
,



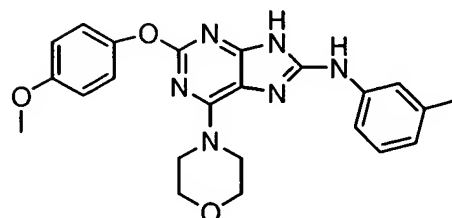
,



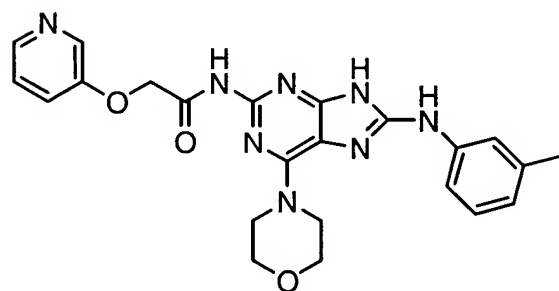
,



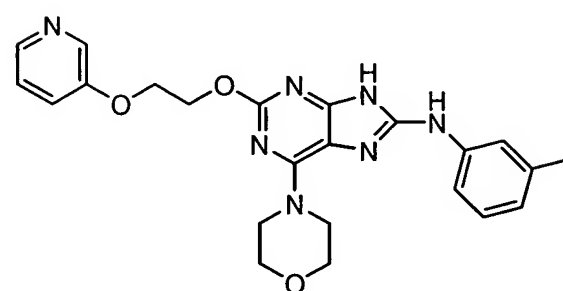
,



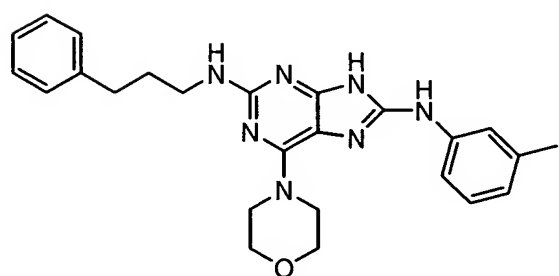
,



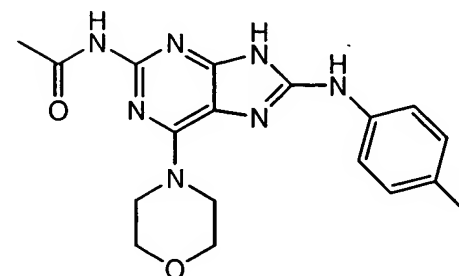
,



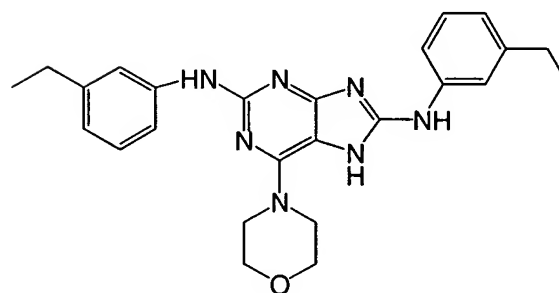
,



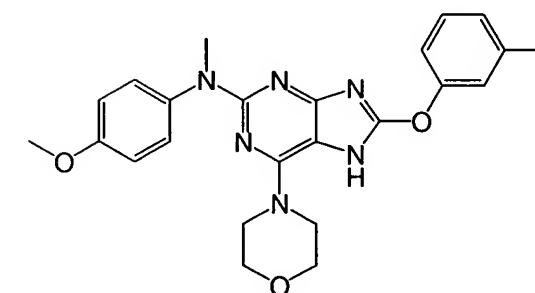
,



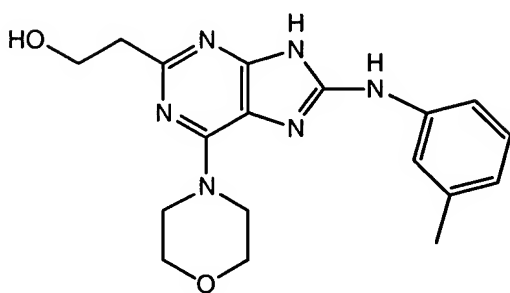
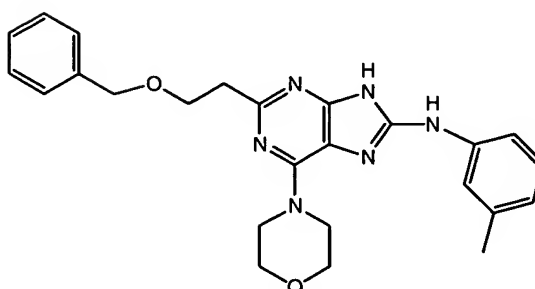
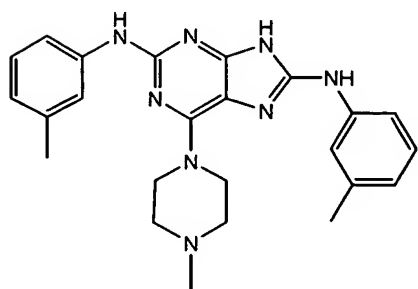
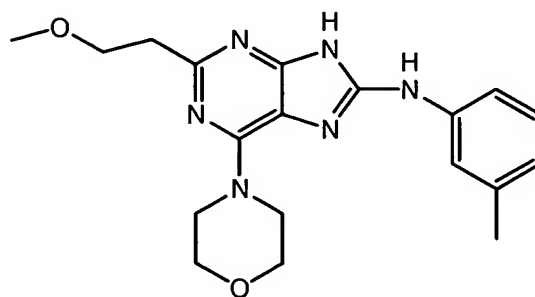
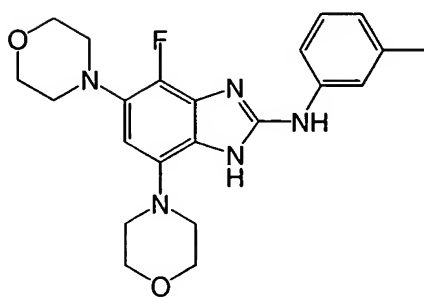
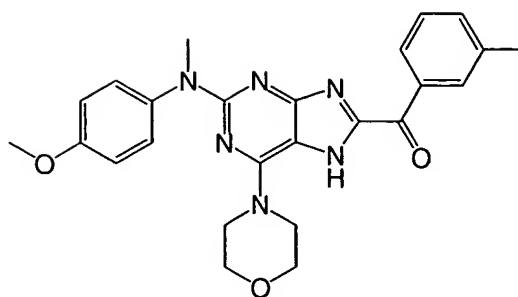
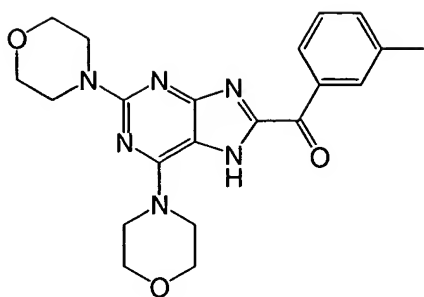
,



,



,



, or